

EDM-1000-D123A

Electro-dynamic Vibration Testing System (Air Cooled)

Features

- Double field coil design to reinforce uniform magnetic field
- Standard IOF (Isolator on Frame) design to save cost to build foundation
- Connection and instant use, easy handling
- Equipped with fully automatic centering control (ACC) on all models
- Fully automatic pneumatic load compensation for heavy test loads
- Standard degauss kit to reduce magnetic flux leakage
- Latest SiC-FET technique based, modularized power module with higher switching frequency range, SNR and more safety
- Smarter remote control on power amplifier thru Ethernet connectivity
- System MTBF > 6,000 Hours, long-time operation with minimum maintenance
- Optional head expander, slip table, chamber thermal barrier

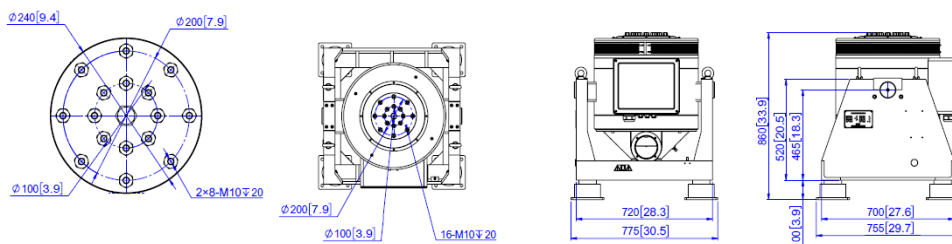


Performances

Shaker Model	EDM-1000
Rated Sine Force	10 kN
Random Force (rms)	7 kN
Shock Force	20 kN
Usable Frequency Range	5-3,000 Hz (1)
Max. Displacement (p-p)	51 mm
Max. Velocity	2.0 m/s
Max. Acceleration (sine, bare table)	981 m/s ²
Max. Load	300 kg
Armature Diameter	240 mm
Effective Moving Elements Mass	10 kg
Armature Fundamental Resonance	2,500 Hz
	(Bare table, ±5%)
Body Suspension Natural Frequency	<3 Hz
Overturning Movement	>390 Nm
Magnetic Flux Leakage	<5 mT (2)
Load Attachment Points	16xM10
Armature Insert Pattern	8x100 mm, 8x200 mm
Dimension (W×D×H, without slip table)	775×775×860 mm
Weight (without slip table)	1,100 kg
System Working Environment	
Temperature	0~40 °C
Humidity (RH, non-condensing)	10~90%
Power Supply Requirement	3-phase 380V/50Hz (3)
Max. Power Consumption	26 kVA
Earthing Impedance Requirement	≤4Ω
Compressed Air Requirement	0.6 Mpa

Power Amplifier Model	VSA-D123A
Amplifier Type	Digital Switching
Power Module	SiC-FET
Remote Control	Ethernet+Software
Rated Power Output	12 kVA
Max. Output Voltage	120 Vrms
Max. Output Current	105 Arms
Switching Frequency	400 kHz
Signal to Noise Ratio	>70 dB
Conversion Efficiency	>93%
Frequency Response	±1.5 dB (5-5,000Hz), ±3 dB (DC-5,000Hz)
Harmonic Distortion	<0.8% (5-5,000Hz)
Parallel Operation Current Unbalanceness	≤1.0%
Operation	Touch Screen (7")
Interlocks and Protection	voltage, current, travel, temperature cooling, module failure, etc
Dimension (W×D×H)	600×880×1570 mm
Weight	390 kg
Air Blower Model	
PBL-W10	
Blower Power	4 kW
Air Flow, Pressure	0.356 m ³ /s, 0.05 kgf/cm ²
Hose Diameter	120 mm
Dimension (W×D×H)	743×519×1410 mm
Weight	118 kg
Accessories (standard)	
Wires/Hose Length	6 m (4)
Accessories	Center Ruler, Dust Cover, Installation Tools

Outline Drawing



Notes

(1) This is sine working frequency defined as per standard ISO 5344. Sine working frequency can start from 2Hz, and Random working frequency can start from 1Hz.

(2) Degaussing coil (magnetic flux leakage <1mT) is optionally available.

(3) Power supply can be customized as per standard of different countries/area.

(4) Electricity wires/cables Length can be customized as per request.

Specifications subject to change without prior notice.

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Turnkey Solution for Vibration Testing, Measurement, and Calibration